



Energy Policy and Development Centre – Scientific Session

Presentation by Prof. Peter Braesicke, Chair of ECRA

9th October 2020

Online, from Eggenstein-Leopoldshafen, Germany

Introducing myself

- Diploma in Meteorology (TU/FU Berlin)
- PhD in Meteorology (Research campaigns in Sweden)
- PostDoc in Cambridge/UK
- Senior Research Associate
- Professor in Karlsruhe (KIT)
 - Theoretical atmospheric physics
 - Section head modelling / acting head IMK-ASF
 - Scientific coordinator REKLIM: <https://www.reklim.de/>
 - ECRA Chair: <http://www.ecra-climate.eu/>
 - Co-Coordinator: Helmholtz RF E&E DataHub



Ozone research



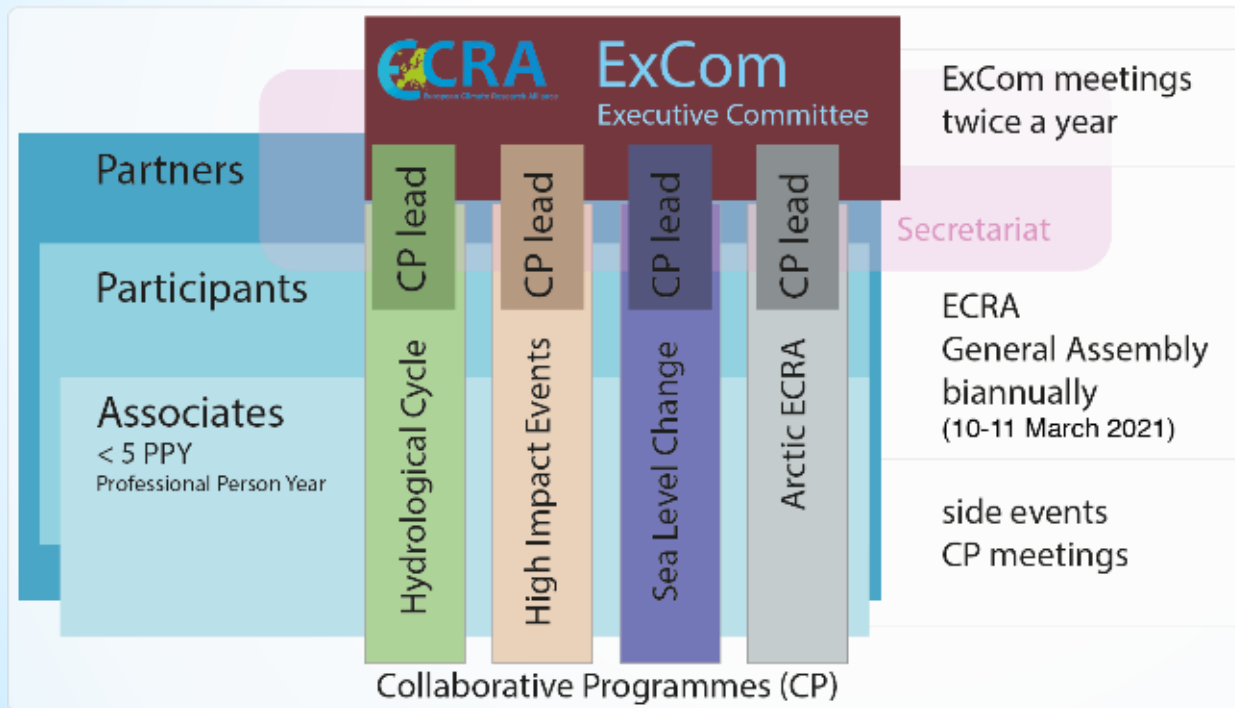
https://www.imk-asf.kit.edu/english/staff_1638.php

https://www.helmholtz.de/en/research/earth_and_environment/initiatives/

ECRA
Members

Governance

Meetings



We are

- A bottom-up
- Network of
- Research performing organizations

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Where we are



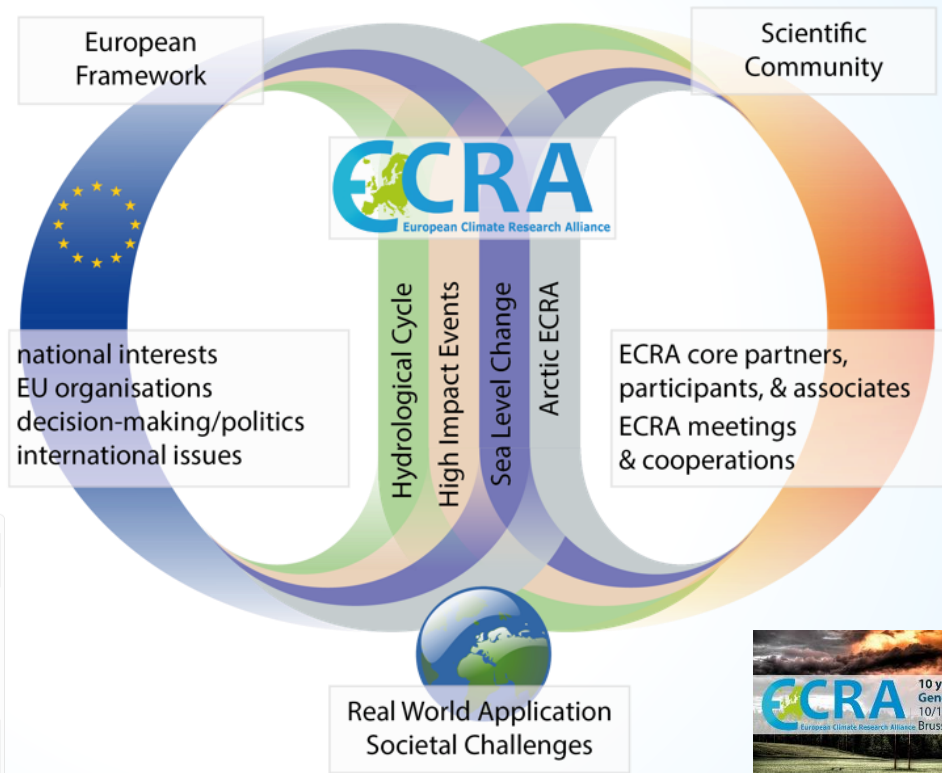
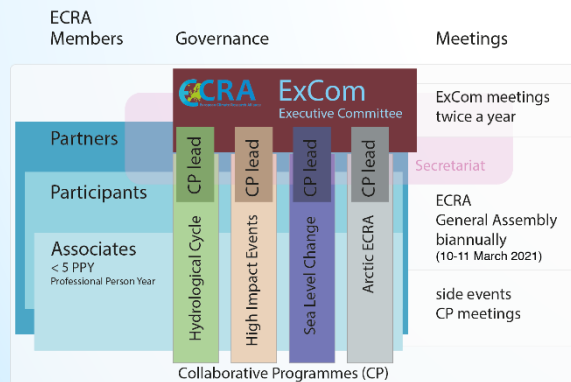
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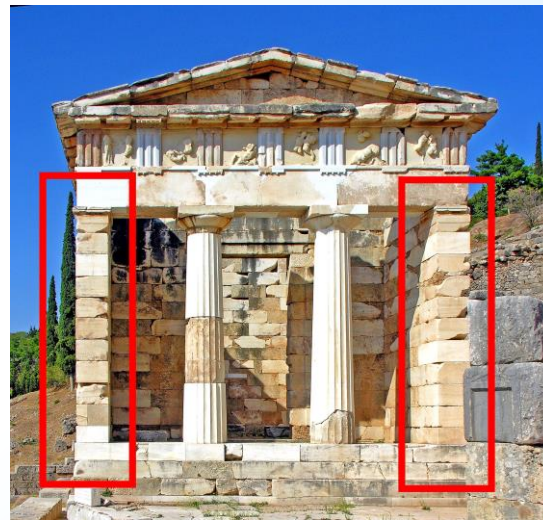
ECRA is structured by Collaborative Programs

- Arctic (Polar) ECRA
- Sea Level Change
- High Impact Events
- Hydrological Cycle

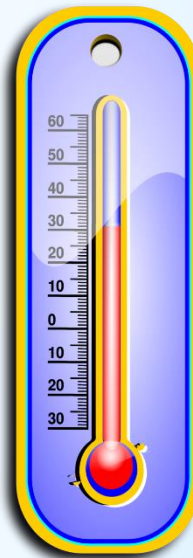


- Shaped through Partners, Participants and Associates (Who)
- Shaped through the structure of ECRA – currently four CPs and the ExCom / Secretariat (What)
- Pillar 1: Infrastructures
- Pillar 2a: Global Challenges and
- Pillar 2b: European Industrial Competitiveness
- Pillar 3: Curiosity Driven Blue Skies Research

https://en.wikipedia.org/wiki/Athenian_Treasury



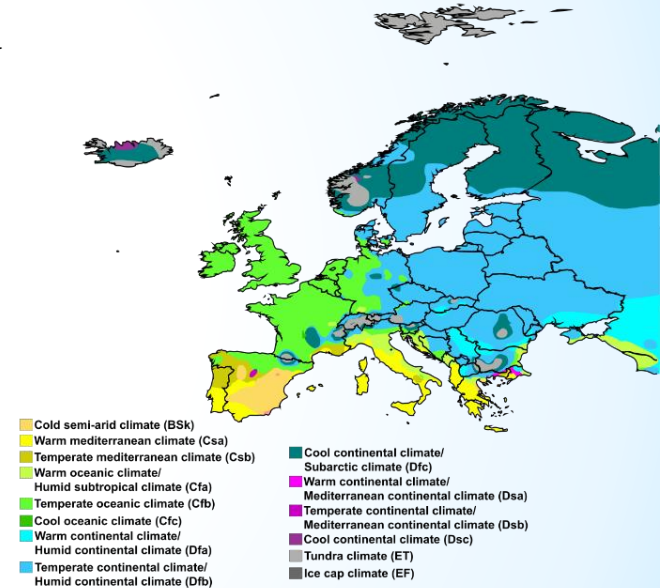
- Multidisciplinary Observatories (MOs) linking Atmosphere, Ocean, Land and Ecosystems in Climate Hot Spots
 - Mediterranean Region
 - Mountain Regions
 - Coastal Regions
 - Tropical/Polar Regions
 - Many more ...
- Remote Sensing from Space („limb sounding gap“)
 - Also a kind of observatory ...
 - Spatial coverage in conjunction to comprehensive local MOs
- Simulation Environments (models and data on HPC)



Global Challenges

- Climate⁽¹⁾ , Energy⁽²⁾ and Mobility⁽³⁾ - monitoring, process understanding, (regional) projections and how changes in 2 and 3 benefit 1
- Food, Bioeconomy, Natural Resources, Agriculture and Environment - in a changing climate
- Health - in a changing climate, including AQ and handling of extreme events

Europe map of Köppen climate classification



- Digital, Industry and Space - for climate change
 - Monitoring (see infrastructures)
 - Simulations (see infrastructures)
 - Merging Data and Models
- Prerequisite: HPC and storage
 - Data specialists
 - Software as infrastructure

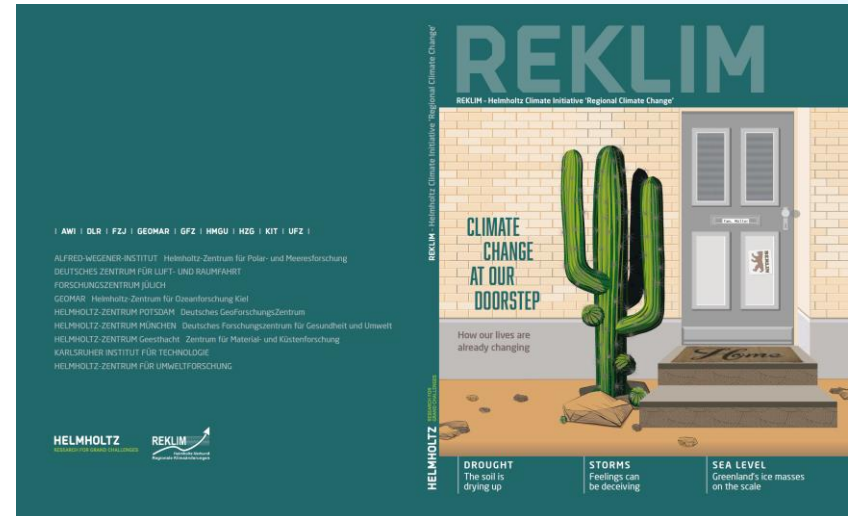


Earth System Science Data Science (ESS DS)

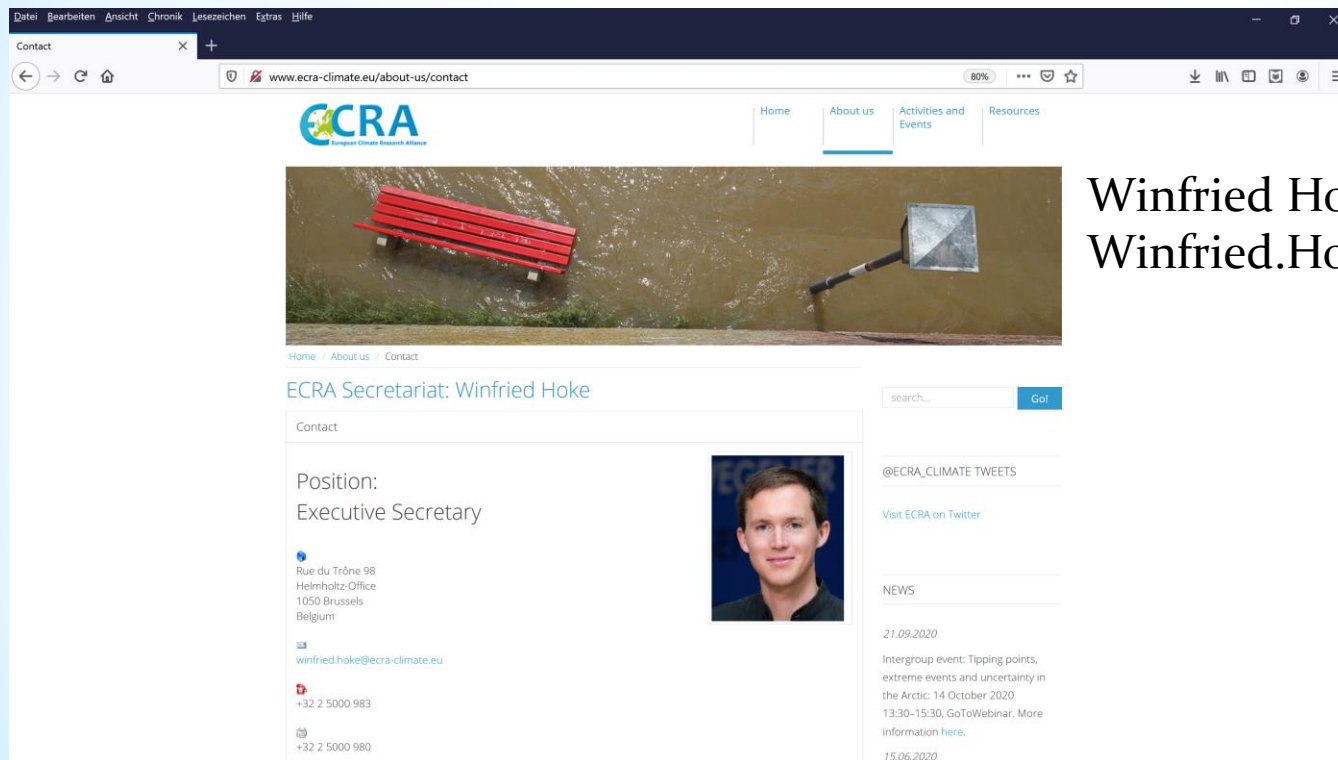


Outreach and Societal Relevance

- H2020 Proposal ASTERISKS
 - Lead by FMI
 - Focus on AI for climate services
 - Outreach component via ECRA
- Outreach by partners
 - E.g. REKLIM in Germany (Helmholtz)



<https://www.reklim.de/en/knowledge-transfer/information-products/reklim-anniversary-magazin/>



The screenshot shows a web browser window displaying the ECRA website. The address bar shows the URL www.ecra-climate.eu/about-us/contact. The page features the ECRA logo, a navigation menu with 'Home', 'About us', 'Activities and Events', and 'Resources', and a large image of a red bench partially submerged in water. The main content area is titled 'ECRA Secretariat: Winfried Hoke' and includes a search bar, a contact information section, a portrait of Winfried Hoke, and a 'NEWS' section with two entries.

Position:
Executive Secretary

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search...

@ECRA_CLIMATE TWEETS

Visit ECRA on Twitter

NEWS

21.09.2020
Intergroup event: Tipping points, extreme events and uncertainty in the Arctic: 14 October 2020 13:30–15:30, GoToWebinar. More information [here](#).

15.06.2020

Winfried Hoke
Winfried.Hoke@ecra-climate.eu

Upcoming General Assembly 2021

- Save the date!
- and
- Please join us!

Thank you to all partners and friends of ECRA for their support!

